

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/909,556

DATE: 08/02/2001

TIME: 10:40:23

Input Set : A:\LeA34772.app

Output Set: N:\CRF3\08022001\I909556.raw

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3 <110> APPLICANT: Bayer Aktiengesellschaft  
 5 <120> TITLE OF INVENTION: Ligand binding domains of Ultraspiracle (USP) proteins  
 7 <130> FILE REFERENCE: Le A 34 772  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/909,556  
 C--> 10 <141> CURRENT FILING DATE: 2001-07-20  
 12 <150> PRIOR APPLICATION NUMBER: DE 100 36 461.6  
 13 <151> PRIOR FILING DATE: 2000-07-25  
 15 <160> NUMBER OF SEQ ID NOS: 2  
 17 <170> SOFTWARE: PatentIn Ver. 2.1  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 262  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Heliothis virescens  
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 26 1 5 10 15  
 28 Ala Asp Pro Ser Glu Glu Phe Gln Phe Leu Arg Val Gly Pro Asp Ser  
 29 20 25 30  
 31 Asn Val Pro Pro Lys Phe Arg Ala Pro Val Ser Ser Leu Cys Gln Ile  
 32 35 40 45  
 34 Gly Asn Lys Gln Ile Ala Ala Leu Val Val Trp Ala Arg Asp Ile Pro  
 35 50 55 60  
 37 His Phe Ser Gln Leu Glu Met Glu Asp Gln Ile Leu Leu Ile Lys Gly  
 38 65 70 75 80  
 40 Ser Trp Asn Glu Leu Leu Leu Phe Ala Ile Ala Trp Arg Ser Met Glu  
 41 85 90 95  
 43 Phe Leu Thr Glu Glu Arg Asp Gly Val Asp Gly Thr Gly Asn Arg Thr  
 44 100 105 110  
 46 Thr Ser Pro Pro Gln Leu Met Cys Leu Met Pro Gly Met Thr Leu His  
 47 115 120 125  
 49 Arg Asn Ser Ala Leu Gln Ala Gly Val Gly Gln Ile Phe Asp Arg Val  
 50 130 135 140  
 52 Leu Ser Glu Leu Ser Leu Lys Met Arg Thr Leu Arg Val Asp Gln Ala  
 53 145 150 155 160  
 55 Glu Tyr Val Ala Leu Lys Ala Ile Ile Leu Leu Asn Pro Asp Val Lys  
 56 165 170 175  
 58 Gly Leu Lys Asn Arg Gln Glu Val Glu Val Leu Arg Glu Lys Met Phe  
 59 180 185 190  
 61 Leu Cys Leu Asp Glu Tyr Cys Arg Arg Ser Arg Ser Ser Glu Glu Gly  
 62 195 200 205  
 64 Arg Phe Ala Ala Leu Leu Leu Arg Leu Pro Ala Leu Arg Ser Ile Ser  
 65 210 215 220  
 67 Leu Lys Ser Phe Glu His Leu Phe Phe Phe His Leu Val Ala Asp Thr  
 68 225 230 235 240  
 70 Ser Ile Ala Gly Tyr Ile Arg Asp Ala Leu Arg Asn His Ala Pro Pro  
 71 245 250 255  
 73 Ile Asp Thr Asn Met Met

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78 <210> SEQ ID NO: 2  
79 <211> LENGTH: 466  
80 <212> TYPE: PRT  
81 <213> ORGANISM: Heliothis virescens  
83 <400> SEQUENCE: 2  
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85 1 5 10 15  
87 Ile Asn Trp Ala Arg Pro Leu Pro Pro Gly Gln Gln Gln Gln Pro Met  
88 20 25 30  
90 Thr Pro Thr Ser Pro Gly Asn Met Leu Gln Pro Met Ala Thr Pro Ser  
91 35 40 45  
93 Asn Leu Pro Thr Val Asp Cys Ser Leu Asp Ile Gln Trp Leu Asn Leu  
94 50 55 60  
96 Glu Gly Gly Phe Met Ser Pro Met Ser Pro Pro Glu Met Lys Pro Asp  
97 65 70 75 80  
99 Thr Ala Met Leu Asp Gly Leu Arg Asp Asp Ser Thr Pro Pro Pro Ala  
100 85 90 95  
102 Phe Lys Asn Tyr Pro Pro Asn His Pro Leu Ser Gly Ser Lys His Leu  
103 100 105 110  
105 Cys Ser Ile Cys Gly Asp Arg Ala Ser Gly Lys His Tyr Gly Val Tyr  
106 115 120 125  
108 Ser Cys Glu Gly Cys Lys Gly Phe Phe Lys Arg Thr Val Arg Lys Asp  
109 130 135 140  
111 Leu Thr Tyr Ala Cys Arg Glu Glu Arg Asn Cys Ile Ile Asp Lys Arg  
112 145 150 155 160  
114 Gln Arg Asn Arg Cys Gln Tyr Cys Arg Tyr Gln Lys Cys Leu Ala Cys  
115 165 170 175  
117 Gly Met Lys Arg Glu Ala Val Gln Glu Glu Arg Gln Arg Ala Ala Arg  
118 180 185 190  
120 Gly Thr Glu Asp Ala His Pro Ser Ser Ser Val Gln Val Gln Glu Leu  
121 195 200 205  
123 Ser Ile Glu Arg Leu Leu Glu Met Glu Ser Leu Val Ala Asp Pro Ser  
124 210 215 220  
126 Glu Glu Phe Gln Phe Leu Arg Val Gly Pro Asp Ser Asn Val Pro Pro  
127 225 230 235 240  
129 Lys Phe Arg Ala Pro Val Ser Ser Leu Cys Gln Ile Gly Asn Lys Gln  
130 245 250 255  
132 Ile Ala Ala Leu Val Val Trp Ala Arg Asp Ile Pro His Phe Ser Gln  
133 260 265 270  
135 Leu Glu Met Glu Asp Gln Ile Leu Leu Ile Lys Gly Ser Trp Asn Glu  
136 275 280 285  
138 Leu Leu Leu Phe Ala Ile Ala Trp Arg Ser Met Glu Phe Leu Thr Glu  
139 290 295 300  
141 Glu Arg Asp Gly Val Asp Gly Thr Gly Asn Arg Thr Thr Ser Pro Pro  
142 305 310 315 320  
144 Gln Leu Met Cys Leu Met Pro Gly Met Thr Leu His Arg Asn Ser Ala  
145 325 330 335  
147 Leu Gln Ala Gly Val Gly Gln Ile Phe Asp Arg Val Leu Ser Glu Leu

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148				340				345				350				
150	Ser	Leu	Lys	Met	Arg	Thr	Leu	Arg	Val	Asp	Gln	Ala	Glu	Tyr	Val	Ala
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153	Leu	Lys	Ala	Ile	Ile	Leu	Leu	Asn	Pro	Asp	Val	Lys	Gly	Leu	Lys	Asn
154			370					375					380			
156	Arg	Gln	Glu	Val	Glu	Val	Leu	Arg	Glu	Lys	Met	Phe	Leu	Cys	Leu	Asp
157	385						390					395				400
159	Glu	Tyr	Cys	Arg	Arg	Ser	Arg	Ser	Ser	Glu	Glu	Gly	Arg	Phe	Ala	Ala
160					405					410					415	
162	Leu	Leu	Leu	Arg	Leu	Pro	Ala	Leu	Arg	Ser	Ile	Ser	Leu	Lys	Ser	Phe
163				420						425				430		
165	Glu	His	Leu	Phe	Phe	Phe	His	Leu	Val	Ala	Asp	Thr	Ser	Ile	Ala	Gly
166			435					440						445		
168	Tyr	Ile	Arg	Asp	Ala	Leu	Arg	Asn	His	Ala	Pro	Pro	Ile	Asp	Thr	Asn
169		450					455						460			
171	Met	Met														
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VERIFICATION SUMMARY

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TIME: 10:40:24

Input Set : A:\LeA34772.app

Output Set: N:\CRF3\08022001\I909556.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date